

Data Validation Checklist
Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo, URS Group
 Concurrence²: Martha Meyers-Lee, URS Group

Project No: 15268508.20000
 Job ID.: 680-91719-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 06/24/2013 and 06/25/2013
 Date: 07/12/2013
 Date: 07/12/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤ 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤ 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 680-91719-35 (062513-RB-Shovel).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 680-91719-35 (062513-RB-Shovel) was collected during the week of 06/24/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-91719-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> • CV1363A-CSD (680-91719-5) is a field duplicate of CV1363A-CS (680-91719-4). • CV1363G-CSD (680-91719-12) is a field duplicate of CV1363G-CS (680-91719-11). • CV1363J-CSD (680-91719-16) is a field duplicate of CV1363J-CS (680-91719-15). 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Instrument ID: BSMA5973 • Initial Calibration: 06/11/2013 • ICV: 06/11/13 @ 16:33 • CCV: 07/02/13 @ 11:29 • CCV: 07/03/13 @ 11:21 • Instrument ID: BSMA5973 • Initial Calibration: 07/07/2013 • ICV: 07/07/13 @ 16:01 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ○ If %RSD>15 (>50% for poor performers), or r <0.995, or $r^2 <0.995$, then J-flag positive results and UJ-flag non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%$D ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓	✓		<ul style="list-style-type: none"> • Prep Batch 138994: 680-91719-1 (CV1363AB-GS), MS/MSD • Prep Batch 139049: 680-91719-17 (CV1363K-CS), MS/MSD • Prep Batch 139005: 680-91719-21 (Batch sample), MS/MSD. Lab sample 680-91719-21 is a project-specific sample (CV1363O -CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-91719-2. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND 		✓		<ul style="list-style-type: none"> • CV1363AB-GS (680-91719-1): <ul style="list-style-type: none"> ○ Acenaphthene @ 35 and 37 %R (39-130). UJ Flag ND sample result. ○ Acenaphthylene @ 36 and 38 %R (38-130). Qualification of data not required³. ○ Benzo[a]anthracene @ 37 and 41 %R (40-130). Qualification of data not required³. ○ Benzo[a]pyrene @ 33 and 38 %R (49-130). J Flag 	J/UJ

³ The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>results, respectively</p> <ul style="list-style-type: none"> • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results 				<p>sample result.</p> <ul style="list-style-type: none"> ○ Benzo[g,h,i]perylene @ 27 and 26 %R (32-130). J Flag sample result. ○ Benzo[k]fluoranthene @ 29 and 24 %R (32-130). J Flag sample result. ○ Chrysene @ 37 and 43 %R (41-130). Qualification of data not required³. ○ Fluoranthene @ 31 and 38 %R (40-130). J Flag sample result. ○ Fluorene @ 37 and 40 %R (40-130). Qualification of data not required³. ○ 2-Methylnaphthalene @ 28 and 31 %R (33-130). J Flag sample result. ○ Phenanthrene @ 28 and 33 %R (42-130). J Flag sample result. ○ Pyrene @ 27 and 32 %R (44-130). J Flag sample result. <ul style="list-style-type: none"> • CV1363K-CS (680-91719-17): <ul style="list-style-type: none"> ○ Acenaphthylene @ 36 and 40 %R (38-130). Qualification of data not required³. ○ Benzo[a]pyrene @ 37 and 73 %R (49-130). Qualification of data not required³. ○ Benzo[b]fluoranthene @ 62 and 131 %R (37-130). Qualification of data not required³. ○ Benzo[g,h,i]perylene @ 20 and 33 %R (32-130). Qualification of data not required³. ○ Fluoranthene @ 34 and 129 %R (40-130). Qualification of data not required³. ○ Indeno[1,2,3-cd]pyrene @ 29 and 45 %R (30-130). Qualification of data not required³. ○ Phenanthrene @ 35 and 74 %R (42-130). Qualification of data not required³. ○ Pyrene @ 27 and 68 %R (44-130). Qualification of data not required³. 	
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. 	✓			<p>CV1363K-CS (680-91719-17):</p> <ul style="list-style-type: none"> • Benzo[a]pyrene @ 42 %RPD (\leq40). J Flag • Benzo[b]fluoranthene @ 47%RPD (\leq40). J Flag. • Chrysene @ 42 %RPD (\leq40). J Flag. • Fluoranthene @ 66 %RPD (\leq40). J Flag. 	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> If %RPD > UCL, J-flag positive result and UJ-flag non-detect result. 				<ul style="list-style-type: none"> Phenanthrene @ 41 %RPD (≤ 40). J Flag. Pyrene @ 47 %RPD (≤ 40). J Flag. 	
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates < 10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R $> UCL$, then J-flag positive results If 2 or more Acid or BN %R $\geq 10\%$, but $< LCL$, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R $> UCL$ and 1 %R $\geq 10\%$, but $< LCL$, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

Data Validation Checklist (Continued)

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-91719-1	CV1363AB-GS	Solid	06/24/13 12:45	06/26/13 08:35
680-91719-2	CV1363AC-GS	Solid	06/24/13 13:50	06/26/13 08:35
680-91719-3	CV1363AD-GS	Solid	06/24/13 14:05	06/26/13 08:35
680-91719-4	CV1363A-CS	Solid	06/24/13 13:00	06/26/13 08:35
680-91719-5	CV1363A-CSD	Solid	06/24/13 13:00	06/26/13 08:35
680-91719-6	CV1363B-CS	Solid	06/24/13 13:01	06/26/13 08:35
680-91719-7	CV1363C-CS	Solid	06/24/13 13:09	06/26/13 08:35
680-91719-8	CV1363D-CS	Solid	06/24/13 13:28	06/26/13 08:35
680-91719-9	CV1363E-CS	Solid	06/24/13 13:56	06/26/13 08:35
680-91719-10	CV1363F-CS	Solid	06/24/13 14:07	06/26/13 08:35
680-91719-11	CV1363G-CS	Solid	06/24/13 14:24	06/26/13 08:35
680-91719-12	CV1363G-CSD	Solid	06/24/13 14:24	06/26/13 08:35
680-91719-13	CV1363H-CS	Solid	06/25/13 07:55	06/26/13 08:35
680-91719-14	CV1363I-CS	Solid	06/25/13 07:51	06/26/13 08:35
680-91719-15	CV1363J-CS	Solid	06/25/13 08:03	06/26/13 08:35
680-91719-16	CV1363J-CSD	Solid	06/25/13 08:03	06/26/13 08:35
680-91719-17	CV1363K-CS	Solid	06/25/13 08:19	06/26/13 08:35
680-91719-18	CV1363L-CS	Solid	06/25/13 08:48	06/26/13 08:35
680-91719-19	CV1363M-CS	Solid	06/25/13 09:20	06/26/13 08:35
680-91719-20	CV1363N-CS	Solid	06/25/13 09:35	06/26/13 08:35

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1363A-CS 680-91719-4		RL	CV1363A-CSD 680-91719-5		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg	Action	
	Value	Flag	Value	Flag	Value	Flag	Unit	Value		Value	Value		
Acenaphthylene	120	J	190		42	J	47	µg/kg	592.5	NA	78	237	None, absolute difference ≤ 2x Avg RL
Anthracene	140		40		60		9.9	µg/kg	124.75	NA	80	49.9	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	220		39		150		9.4	µg/kg	121	38	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	240		50		160		12	µg/kg	155	40	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	460		59		280		14	µg/kg	182.5	49	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	170		96		110		24	µg/kg	300	NA	60	120	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	170		39		90		9.4	µg/kg	121	NA	80	48.4	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	340		43		230		11	µg/kg	135	39	NA	NA	None, RPD ≤ 50%
Dibenz(a,h)anthracene	57	J	96		43		24	µg/kg	300	NA	14	120	None, absolute difference ≤ 2x Avg RL
Fluoranthene	400		96		250		24	µg/kg	300	NA	150	120	J/UJ-flag, absolute difference > 2x Avg RL
Indeno(1,2,3-cd)pyrene	170		96		110		24	µg/kg	300	NA	60	120	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	150	J	190		77	J	47	µg/kg	592.5	NA	73	237	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	160	J	190		90	J	47	µg/kg	592.5	NA	70	237	None, absolute difference ≤ 2x Avg RL
Naphthalene	130	J	190		84	J	47	µg/kg	592.5	NA	46	237	None, absolute difference ≤ 2x Avg RL
Phenanthrene	290		39		180		9.4	µg/kg	121	47	NA	NA	None, RPD ≤ 50%
Pyrene	260		96		180		24	µg/kg	300	NA	80	120	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

J - Estimated value

UJ - Not detected and the limit is estimated

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1363G-CS 680-91719-11	RL	CV1363G-CSD 680-91719-12	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	56	45	64	48	µg/kg	232.5	NA	8	93	None, absolute difference \leq 2x Avg RL
Anthracene	75	9.4	110	10	µg/kg	48.5	38	NA	NA	None, RPD \leq 50%
Benzo(a)anthracene	190	9	340	9.5	µg/kg	46.25	57	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	200	12	280	12	µg/kg	60	33	NA	NA	None, RPD \leq 50%
Benzo(b)fluoranthene	390	14	560	15	µg/kg	72.5	36	NA	NA	None, RPD \leq 50%
Benzo(g,h,i)perylene	91	22	110	24	µg/kg	115	NA	19	46	None, absolute difference \leq 2x Avg RL
Benzo(k)fluoranthene	110	9.0	150	9.5	µg/kg	46.25	31	NA	NA	None, RPD \leq 50%
Chrysene	270	10	360	11	µg/kg	52.5	29	NA	NA	None, RPD \leq 50%
Dibeno(a,h)anthracene	49	22	54	24	µg/kg	115	NA	5	46	None, absolute difference \leq 2x Avg RL
Fluoranthene	320	22	570	24	µg/kg	115	56	NA	NA	J/UJ-flag, RPD > 50%
Indeno(1,2,3-cd)pyrene	94	22	120	24	µg/kg	115	NA	26	46	None, absolute difference \leq 2x Avg RL
1-Methylnaphthalene	110	45	110	48	µg/kg	232.5	NA	0	93	None, absolute difference \leq 2x Avg RL
2-Methylnaphthalene	130	45	140	48	µg/kg	232.5	NA	10	93	None, absolute difference \leq 2x Avg RL
Naphthalene	130	45	150	48	µg/kg	232.5	NA	20	93	None, absolute difference \leq 2x Avg RL
Phenanthrene	200	9.0	330	9.5	µg/kg	46.25	49	NA	NA	None, RPD \leq 50%
Pyrene	230	22	380	24	µg/kg	115	49	NA	NA	None, RPD \leq 50%

Note: If the analyte was not detected, then the cell was left blank.

J - Estimated value

UJ - Not detected and the limit is estimated

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1363J-CS 680-91719-15	RL	CV1363J-CSD 680-91719-16	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	54	47	64	46	µg/kg	232.5	NA	10	93	None, absolute difference ≤ 2x Avg RL
Anthracene	88	9.9	110	9.7	µg/kg	49	22	NA	NA	None, RPD ≤ 50%
Benzo(a)anthracene	250	9.4	340	9.3	µg/kg	46.75	31	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	230	12	280	12	µg/kg	60	20	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	410	14	560	14	µg/kg	70	31	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	94	24	110	23	µg/kg	117.5	NA	16	47	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	140	9.4	150	9.3	µg/kg	46.75	7	NA	NA	None, RPD ≤ 50%
Chrysene	290	11	360	10	µg/kg	52.5	22	NA	NA	None, RPD ≤ 50%
Dibenz(a,h)anthracene	42	24	54	23	µg/kg	117.5	NA	12	47	None, absolute difference ≤ 2x Avg RL
Fluoranthene	410	24	570	23	µg/kg	117.5	33	NA	NA	None, RPD ≤ 50%
Indeno(1,2,3-cd)pyrene	100	24	120	23	µg/kg	117.5	NA	20	47	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	90	47	110	46	µg/kg	232.5	NA	20	93	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	100	47	140	46	µg/kg	232.5	NA	40	93	None, absolute difference ≤ 2x Avg RL
Naphthalene	99	47	150	46	µg/kg	232.5	NA	51	93	None, absolute difference ≤ 2x Avg RL
Phenanthrene	280	9.4	330	9.3	µg/kg	46.75	16	NA	NA	None, RPD ≤ 50%
Pyrene	280	24	380	23	µg/kg	117.5	30	NA	NA	None, RPD ≤ 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C
CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
SDG: 68091719-1

Job ID: 680-91719-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-91719-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/26/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

SEMICVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1363AB-GS (680-91719-1), CV1363AC-GS (680-91719-2), CV1363AD-GS (680-91719-3), CV1363A-CS (680-91719-4), CV1363A-CSD (680-91719-5), CV1363B-CS (680-91719-6), CV1363C-CS (680-91719-7), CV1363D-CS (680-91719-8), CV1363E-CS (680-91719-9), CV1363F-CS (680-91719-10), CV1363G-CS (680-91719-11), CV1363G-CSD (680-91719-12), CV1363H-CS (680-91719-13), CV1363I-CS (680-91719-14), CV1363J-CS (680-91719-15), CV1363J-CSD (680-91719-16), CV1363K-CS (680-91719-17), CV1363L-CS (680-91719-18), CV1363M-CS (680-91719-19) and CV1363N-CS (680-91719-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The following samples were diluted due to the nature of the sample matrix: CV1363AB-GS (680-91719-1), CV1363A-CS (680-91719-4), CV1363B-CS (680-91719-6), CV1363AB-GS (680-91719-1 MS), CV1363AB-GS (680-91719-1 MSD). Elevated reporting limits (RL) are provided. Batch: 139030.

Method(s) 8270C LL: Samples CV1363A-CSD (680-91719-5) were requested as client-specified duplicates. The parent sample was analyzed at a dilution due to the color of the extract while the duplicate was analyzed straight, as the extract was lighter. Each sample was extracted from its own sample container, so the duplicates could be non-homogeneous. Batch: 139030.

Method(s) 8270C LL: The matrix spike/matrix spike duplicate (MS/MSD) recoveries associated with batch 139030 were outside control limits: CV1363AB-GS (680-91719-1 MS), CV1363AB-GS (680-91719-1 MSD). The recoveries were biased low. Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 139084 were outside control limits. This is attributed to non-homogeneity of the sample matrix and matrix interferences. The data has been qualified and reported.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
SDG: 68091719-1

Client Sample ID: CV1363AB-GS

Date Collected: 06/24/13 12:45
Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-1
Matrix: Solid
Percent Solids: 69.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	✓UJ	570	110	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Acenaphthylene	130	J	230	29	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Anthracene	150		48	24	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Benzo[a]anthracene	200		46	22	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Benzo[a]pyrene	220	J	60	30	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Benzo[b]fluoranthene	390		70	35	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Benzo[g,h,i]perylene	200	J	110	25	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Benzo[k]fluoranthene	220	J	46	21	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Chrysene	340		52	26	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Dibenz(a,h)anthracene	70	J	110	24	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Fluoranthene	370	J	110	23	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Fluorene	110	U	110	24	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Indeno[1,2,3-cd]pyrene	200		110	41	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
1-Methylnaphthalene	160	J	230	25	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
2-Methylnaphthalene	210	✓J	230	41	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Naphthalene	200	J	230	25	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Phenanthrene	310	J	46	22	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Pyrene	250	J	110	21	ug/Kg	●	07/01/13 13:43	07/02/13 20:46	4
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	36			30 - 130			07/01/13 13:43	07/02/13 20:46	4

Client Sample ID: CV1363AC-GS

Date Collected: 06/24/13 13:50
Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-2
Matrix: Solid
Percent Solids: 80.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Acenaphthylene	46	J	49	6.1	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Anthracene	67		10	5.2	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Benzo[a]anthracene	140		9.8	4.8	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Benzo[a]pyrene	150		13	6.4	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Benzo[b]fluoranthene	280		15	7.5	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Benzo[g,h,i]perylene	120		25	5.4	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Benzo[k]fluoranthene	110		9.8	4.4	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Chrysene	230		11	5.5	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Dibenz(a,h)anthracene	39		25	5.0	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Fluoranthene	230		25	4.9	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Fluorene	25	U	25	5.0	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Indeno[1,2,3-cd]pyrene	120		25	8.7	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
1-Methylnaphthalene	84		49	5.4	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
2-Methylnaphthalene	100		49	8.7	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Naphthalene	110		49	5.4	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Phenanthrene	160		9.8	4.8	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Pyrene	170		25	4.5	ug/Kg	●	07/01/13 13:43	07/02/13 21:31	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	34			30 - 130			07/01/13 13:43	07/02/13 21:31	1

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Sample results have been qualified by URIS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363AD-GS

Date Collected: 06/24/13 14:05
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-3

Matrix: Solid
 Percent Solids: 64.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Acenaphthylene	66		62	7.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Anthracene	100		13	6.5	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Benzo[a]anthracene	170		12	6.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Benzo[a]pyrene	180		16	8.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Benzo[b]fluoranthene	370		19	9.5	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Benzo[g,h,i]perylene	130		31	6.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Benzo[k]fluoranthene	120		12	5.6	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Chrysene	310		14	7.0	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Dibenz(a,h)anthracene	48		31	6.4	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Fluoranthene	320		31	6.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Fluorene	31	U	31	6.4	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Indeno[1,2,3-cd]pyrene	130		31	11	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
1-Methylnaphthalene	91		62	6.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
2-Methylnaphthalene	110		62	11	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Naphthalene	140		62	6.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Phenanthrene	220		12	6.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Pyrene	220		31	5.7	ug/Kg	⊗	07/01/13 13:43	07/02/13 21:46	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		38			30 - 130		07/01/13 13:43	07/02/13 21:46	1

Client Sample ID: CV1363A-CS

Date Collected: 06/24/13 13:00
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-4

Matrix: Solid
 Percent Solids: 82.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Acenaphthylene	120	J	190	24	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Anthracene	140	J	40	20	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Benzo[a]anthracene	220		39	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Benzo[a]pyrene	240		50	25	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Benzo[b]fluoranthene	460		59	29	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Benzo[g,h,i]perylene	170		96	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Benzo[k]fluoranthene	170	J	39	17	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Chrysene	340		43	22	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Dibenz(a,h)anthracene	57	J	96	20	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Fluoranthene	400	J	96	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Fluorene	96	U	96	20	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Indeno[1,2,3-cd]pyrene	170		96	34	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
1-Methylnaphthalene	150	J	190	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
2-Methylnaphthalene	160	J	190	34	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Naphthalene	130	J	190	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Phenanthrene	290		39	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Pyrene	260		96	18	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:02	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		47			30 - 130		07/01/13 13:43	07/02/13 22:02	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363A-CSD

Date Collected: 06/24/13 13:00
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-5

Matrix: Solid
 Percent Solids: 84.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Acenaphthylene	42	J	47	5.9	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Anthracene	60	J	9.9	4.9	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Benzo[a]anthracene	150		9.4	4.6	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Benzo[a]pyrene	160		12	6.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Benzo[b]fluoranthene	280		14	7.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Benzo[g,h,i]perylene	110		24	5.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Benzo[k]fluoranthene	90	J	9.4	4.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Chrysene	230		11	5.3	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Dibenz(a,h)anthracene	43		24	4.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Fluoranthene	250	J	24	4.7	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Fluorene	24	U	24	4.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Indeno[1,2,3-cd]pyrene	110		24	8.3	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
1-Methylnaphthalene	77		47	5.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
2-Methylnaphthalene	90		47	8.3	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Naphthalene	84		47	5.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Phenanthrene	180		9.4	4.6	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Pyrene	180		24	4.3	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:17	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		36			30 - 130		07/01/13 13:43	07/02/13 22:17	1

Client Sample ID: CV1363B-CS

Date Collected: 06/24/13 13:01
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-6

Matrix: Solid
 Percent Solids: 84.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Acenaphthylene	190	U	190	24	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Anthracene	130		40	20	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Benzo[a]anthracene	190		38	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Benzo[a]pyrene	180		49	25	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Benzo[b]fluoranthene	320		58	29	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Benzo[g,h,i]perylene	120		95	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Benzo[k]fluoranthene	130		38	17	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Chrysene	250		43	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Dibenz(a,h)anthracene	37	J	95	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Fluoranthene	350		95	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Fluorene	95	U	95	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Indeno[1,2,3-cd]pyrene	110		95	34	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
1-Methylnaphthalene	160	J	190	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
2-Methylnaphthalene	190		190	34	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Naphthalene	120	J	190	21	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Phenanthrene	290		38	19	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Pyrene	230		95	18	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:32	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		45			30 - 130		07/01/13 13:43	07/02/13 22:32	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363C-CS

Date Collected: 06/24/13 13:09
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-7

Matrix: Solid
 Percent Solids: 88.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Acenaphthylene	45	J	46	5.7	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Anthracene	80		9.6	4.8	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Benzo[a]anthracene	220		9.1	4.5	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Benzo[a]pyrene	220		12	5.9	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Benzo[b]fluoranthene	350		14	7.0	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Benzo[g,h,i]perylene	130		23	5.0	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Benzo[k]fluoranthene	150		9.1	4.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Chrysene	270		10	5.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Dibenz(a,h)anthracene	47		23	4.7	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Fluoranthene	370		23	4.6	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Fluorene	23	U	23	4.7	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Indeno[1,2,3-cd]pyrene	140		23	8.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
1-Methylnaphthalene	91		46	5.0	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
2-Methylnaphthalene	130		46	8.1	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Naphthalene	140		46	5.0	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Phenanthrene	240		9.1	4.5	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Pyrene	260		23	4.2	ug/Kg	⊗	07/01/13 13:43	07/02/13 22:47	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		46			30 - 130		07/01/13 13:43	07/02/13 22:47	1

Client Sample ID: CV1363D-CS

Date Collected: 06/24/13 13:28
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-8

Matrix: Solid
 Percent Solids: 90.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Acenaphthylene	82		44	5.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Anthracene	100		9.3	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Benzo[a]anthracene	320		8.9	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Benzo[a]pyrene	340		12	5.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Benzo[b]fluoranthene	610		14	6.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Benzo[g,h,i]perylene	130		22	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Benzo[k]fluoranthene	200		8.9	4.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Chrysene	410		10	5.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Dibenz(a,h)anthracene	68		22	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Fluoranthene	500		22	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Fluorene	22	U	22	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Indeno[1,2,3-cd]pyrene	150		22	7.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
1-Methylnaphthalene	110		44	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
2-Methylnaphthalene	150		44	7.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Naphthalene	240		44	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Phenanthrene	260		8.9	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Pyrene	340		22	4.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:40	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		55			30 - 130		07/02/13 07:50	07/03/13 17:40	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363E-CS

Date Collected: 06/24/13 13:56
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-9

Matrix: Solid
 Percent Solids: 86.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Acenaphthylene	53		46	5.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Anthracene	87		9.7	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Benzo[a]anthracene	240		9.2	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Benzo[a]pyrene	240		12	6.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Benzo[b]fluoranthene	450		14	7.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Benzo[g,h,i]perylene	100		23	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Benzo[k]fluoranthene	130		9.2	4.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Chrysene	280		10	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Dibenz(a,h)anthracene	57		23	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Fluoranthene	390		23	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Fluorene	23	U	23	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Indeno[1,2,3-cd]pyrene	100		23	8.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
1-Methylnaphthalene	76		46	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
2-Methylnaphthalene	94		46	8.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Naphthalene	97		46	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Phenanthrene	230		9.2	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Pyrene	260		23	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 17:55	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		47			30 - 130		07/02/13 07:50	07/03/13 17:55	1

Client Sample ID: CV1363F-CS

Date Collected: 06/24/13 14:07
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-10

Matrix: Solid
 Percent Solids: 85.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Acenaphthylene	49		47	5.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Anthracene	71		9.8	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Benzo[a]anthracene	230		9.3	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Benzo[a]pyrene	210		12	6.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Benzo[b]fluoranthene	380		14	7.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Benzo[g,h,i]perylene	95		23	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Benzo[k]fluoranthene	130		9.3	4.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Chrysene	330		10	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Dibenz(a,h)anthracene	41		23	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Fluoranthene	360		23	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Fluorene	23	U	23	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Indeno[1,2,3-cd]pyrene	95		23	8.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
1-Methylnaphthalene	99		47	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
2-Methylnaphthalene	110		47	8.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Naphthalene	100		47	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Phenanthrene	230		9.3	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Pyrene	250		23	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:10	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		41			30 - 130		07/02/13 07:50	07/03/13 18:10	1

Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama.

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363G-CS

Date Collected: 06/24/13 14:24
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-11

Matrix: Solid
 Percent Solids: 87.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Acenaphthylene	56		45	5.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Anthracene	75		9.4	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Benzo[a]anthracene	190 J		9.0	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Benzo[a]pyrene	200		12	5.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Benzo[b]fluoranthene	390		14	6.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Benzo[g,h,i]perylene	91		22	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Benzo[k]fluoranthene	110		9.0	4.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Chrysene	270		10	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Dibenz(a,h)anthracene	49		22	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Fluoranthene	320 J		22	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Fluorene	22	U	22	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Indeno[1,2,3-cd]pyrene	94		22	8.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
1-Methylnaphthalene	110		45	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
2-Methylnaphthalene	130		45	8.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Naphthalene	130		45	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Phenanthrene	200		9.0	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Pyrene	230		22	4.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:25	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		39		30 - 130			07/02/13 07:50	07/03/13 18:25	1

Client Sample ID: CV1363G-CSD

Date Collected: 06/24/13 14:24
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-12

Matrix: Solid
 Percent Solids: 84.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Acenaphthylene	64		48	5.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Anthracene	110		10	5.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Benzo[a]anthracene	340 J		9.5	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Benzo[a]pyrene	280		12	6.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Benzo[b]fluoranthene	560		15	7.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Benzo[g,h,i]perylene	110		24	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Benzo[k]fluoranthene	150		9.5	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Chrysene	360		11	5.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Dibenz(a,h)anthracene	54		24	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Fluoranthene	570 J		24	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Fluorene	24	U	24	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Indeno[1,2,3-cd]pyrene	120		24	8.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
1-Methylnaphthalene	110		48	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
2-Methylnaphthalene	140		48	8.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Naphthalene	150		48	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Phenanthrene	330		9.5	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Pyrene	380		24	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:40	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		45		30 - 130			07/02/13 07:50	07/03/13 18:40	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363H-CS

Date Collected: 06/25/13 07:55
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-13

Matrix: Solid
 Percent Solids: 83.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Acenaphthylene	55		48	6.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Anthracene	78		10	5.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Benzo[a]anthracene	220		9.6	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Benzo[a]pyrene	200		12	6.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Benzo[b]fluoranthene	390		15	7.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Benzo[g,h,i]perylene	96		24	5.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Benzo[k]fluoranthene	150		9.6	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Chrysene	280		11	5.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Dibenz(a,h)anthracene	47		24	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Fluoranthene	340		24	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Fluorene	24	U	24	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Indeno[1,2,3-cd]pyrene	99		24	8.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
1-Methylnaphthalene	130		48	5.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
2-Methylnaphthalene	140		48	8.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Naphthalene	130		48	5.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Phenanthrene	280		9.6	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Pyrene	240		24	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 18:55	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		43			30 - 130		07/02/13 07:50	07/03/13 18:55	1

Client Sample ID: CV1363I-CS

Date Collected: 06/25/13 07:51
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-14

Matrix: Solid
 Percent Solids: 84.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Acenaphthylene	54		47	5.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Anthracene	91		9.9	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Benzo[a]anthracene	270		9.4	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Benzo[a]pyrene	220		12	6.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Benzo[b]fluoranthene	480		14	7.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Benzo[g,h,i]perylene	90		24	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Benzo[k]fluoranthene	120		9.4	4.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Chrysene	360		11	5.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Dibenz(a,h)anthracene	47		24	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Fluoranthene	480		24	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Fluorene	42		24	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Indeno[1,2,3-cd]pyrene	96		24	8.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
1-Methylnaphthalene	170		47	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
2-Methylnaphthalene	170		47	8.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Naphthalene	180		47	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Phenanthrene	350		9.4	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Pyrene	310		24	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:10	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		45			30 - 130		07/02/13 07:50	07/03/13 19:10	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363J-CS

Date Collected: 06/25/13 08:03
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-15

Matrix: Solid
 Percent Solids: 85.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Acenaphthylene	54		47	5.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Anthracene	88		9.9	5.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Benzo[a]anthracene	250		9.4	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Benzo[a]pyrene	230		12	6.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Benzo[b]fluoranthene	410		14	7.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Benzo[g,h,i]perylene	94		24	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Benzo[k]fluoranthene	140		9.4	4.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Chrysene	290		11	5.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Dibenz(a,h)anthracene	42		24	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Fluoranthene	410		24	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Fluorene	24	U	24	4.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Indeno[1,2,3-cd]pyrene	100		24	8.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
1-Methylnaphthalene	90		47	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
2-Methylnaphthalene	100		47	8.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Naphthalene	99		47	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Phenanthrene	280		9.4	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Pyrene	280		24	4.4	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:25	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		42			30 - 130		07/02/13 07:50	07/03/13 19:25	1

Client Sample ID: CV1363J-CSD

Date Collected: 06/25/13 08:03
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-16

Matrix: Solid
 Percent Solids: 85.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Acenaphthylene	47		46	5.8	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Anthracene	72		9.7	4.9	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Benzo[a]anthracene	220		9.3	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Benzo[a]pyrene	210		12	6.0	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Benzo[b]fluoranthene	390		14	7.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Benzo[g,h,i]perylene	83		23	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Benzo[k]fluoranthene	110		9.3	4.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Chrysene	250		10	5.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Dibenz(a,h)anthracene	44		23	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Fluoranthene	330		23	4.6	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Fluorene	23	U	23	4.7	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Indeno[1,2,3-cd]pyrene	93		23	8.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
1-Methylnaphthalene	93		46	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
2-Methylnaphthalene	120		46	8.2	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Naphthalene	110		46	5.1	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Phenanthrene	210		9.3	4.5	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Pyrene	230		23	4.3	ug/Kg	⊗	07/02/13 07:50	07/03/13 19:40	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		40			30 - 130		07/02/13 07:50	07/03/13 19:40	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363K-CS

Date Collected: 06/25/13 08:19
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-17

Matrix: Solid
 Percent Solids: 89.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Acenaphthylene	46	J	45	5.6	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Anthracene	85		9.4	4.7	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Benzo[a]anthracene	230		8.9	4.3	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Benzo[a]pyrene	230	J	12	5.8	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Benzo[b]fluoranthene	380	J	14	6.8	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Benzo[g,h,i]perylene	110	J	22	4.9	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Benzo[k]fluoranthene	150		8.9	4.0	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Chrysene	280	J	10	5.0	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Dibenz(a,h)anthracene	40		22	4.6	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Fluoranthene	470	J	22	4.5	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Fluorene	22	U	22	4.6	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Indeno[1,2,3-cd]pyrene	120	J	22	7.9	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
1-Methylnaphthalene	68		45	4.9	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
2-Methylnaphthalene	74		45	7.9	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Naphthalene	61		45	4.9	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Phenanthrene	290	J	8.9	4.3	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Pyrene	290	J	22	4.1	ug/Kg	⊗	07/03/13 07:27	07/03/13 16:55	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	45		30 - 130				07/03/13 07:27	07/03/13 16:55	1

Client Sample ID: CV1363L-CS

Date Collected: 06/25/13 08:48
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-18

Matrix: Solid
 Percent Solids: 86.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	43	J	110	23	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Acenaphthylene	71		46	5.7	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Anthracene	220		9.6	4.8	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Benzo[a]anthracene	610		9.2	4.5	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Benzo[a]pyrene	440		12	6.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Benzo[b]fluoranthene	660		14	7.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Benzo[g,h,i]perylene	420		23	5.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Benzo[k]fluoranthene	200		9.2	4.1	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Chrysene	640		10	5.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Dibenz(a,h)anthracene	120		23	4.7	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Fluoranthene	1300		23	4.6	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Fluorene	47		23	4.7	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Indeno[1,2,3-cd]pyrene	380		23	8.1	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
1-Methylnaphthalene	88		46	5.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
2-Methylnaphthalene	110		46	8.1	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Naphthalene	95		46	5.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Phenanthrene	790		9.2	4.5	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Pyrene	1000		23	4.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 17:54	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	56		30 - 130				07/03/13 11:12	07/07/13 17:54	1

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Event Sampling
 QAPP for the 35th Avenue Removal Site, Birmingham, Alabama
 Sampling Event 1 (OTIE, October 2012)

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-91719-1
 SDG: 68091719-1

Client Sample ID: CV1363M-CS

Date Collected: 06/25/13 09:20
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-19

Matrix: Solid
 Percent Solids: 85.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	120	23	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Acenaphthylene	30	J	47	5.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Anthracene	260		9.9	4.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Benzo[a]anthracene	630		9.4	4.6	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Benzo[a]pyrene	450		12	6.1	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Benzo[b]fluoranthene	670		14	7.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Benzo[g,h,i]perylene	390		23	5.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Benzo[k]fluoranthene	240		9.4	4.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Chrysene	720		11	5.3	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Dibenz(a,h)anthracene	110		23	4.8	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Fluoranthene	1600		23	4.7	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Fluorene	100		23	4.8	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Indeno[1,2,3-cd]pyrene	340		23	8.3	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
1-Methylnaphthalene	51		47	5.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
2-Methylnaphthalene	66		47	8.3	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Naphthalene	62		47	5.2	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Phenanthrene	1200		9.4	4.6	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Pyrene	1200		23	4.3	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:09	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		60			30 - 130		07/03/13 11:12	07/07/13 18:09	1

Client Sample ID: CV1363N-CS

Date Collected: 06/25/13 09:35
 Date Received: 06/26/13 08:35

Lab Sample ID: 680-91719-20

Matrix: Solid
 Percent Solids: 90.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22	J	110	22	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Acenaphthylene	54		44	5.5	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Anthracene	120		9.3	4.6	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Benzo[a]anthracene	300		8.8	4.3	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Benzo[a]pyrene	260		12	5.8	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Benzo[b]fluoranthene	400		13	6.7	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Benzo[g,h,i]perylene	300		22	4.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Benzo[k]fluoranthene	160		8.8	4.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Chrysene	360		10	5.0	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Dibenz(a,h)anthracene	82		22	4.5	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Fluoranthene	580		22	4.4	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Fluorene	28		22	4.5	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Indeno[1,2,3-cd]pyrene	260		22	7.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
1-Methylnaphthalene	81		44	4.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
2-Methylnaphthalene	120		44	7.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Naphthalene	100		44	4.9	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Phenanthrene	410		8.8	4.3	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Pyrene	450		22	4.1	ug/Kg	⊗	07/03/13 11:12	07/07/13 18:24	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		59			30 - 130		07/03/13 11:12	07/07/13 18:24	1

TestAmerica Savannah

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URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

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